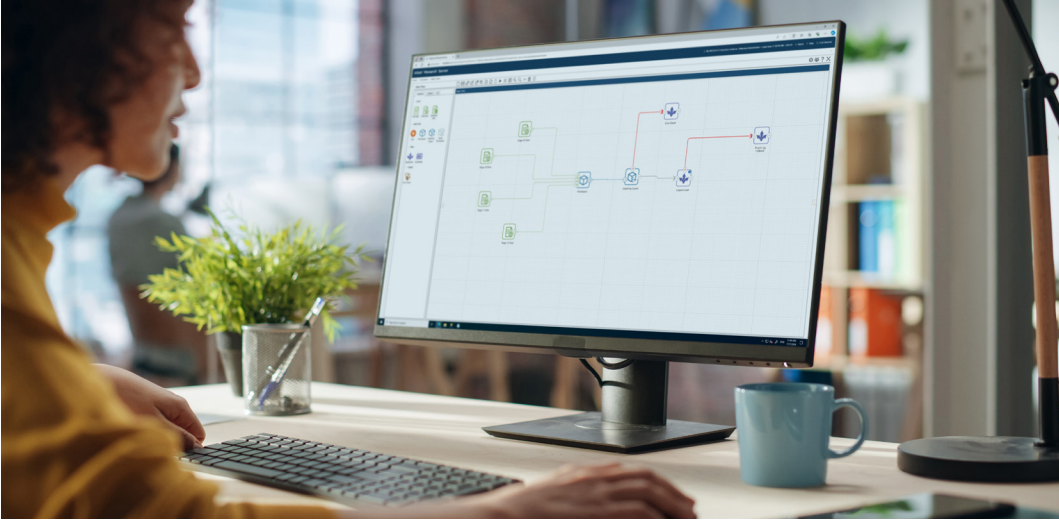# AUTOMATED DATA TRANSFORMATION FOR THE ENTERPRISE

Altair® Monarch® is a market leading desktop-based self-service data preparation solution. Monarch connects to multiple data sources, including structured and semi-structured data, cloud-based data, and big data. Users can extract data from complex PDFs and both non-tabular and tabular Microsoft® Excel®. Altair® Monarch® Server is a centralized data management solution that automates bulk data processing and data distribution. It allows users to securely publish, collaborate, and share data preparation models, workspaces, source data, and prepared datasets.

Self-Service Data Preparation

Known for nearly 30 years as the industry leader in data wrangling and data transformation, Monarch empowers users to easily connect to an array of data sources and transform difficult-to-use data into trusted, accurate datasets. With Monarch, users can extract data from virtually any source, including text, PDF, and Microsoft® Excel®.

Monarch Server takes self-service data preparation to a whole new level. Extend Monarch's desktop-based data preparation capabilities into a comprehensive, enterprise-wide solution. Monarch Server's richer functionalities include Visual Processes with user-defined data and process flow authoring, storage of reports with comprehensive indexing, and security capabilities. These functionalities optimize user access experience, allow organizations to work more collaboratively, help users store and retrieve reports easier, and distribute clean, enriched data beyond Monarch.

Reduce Costs, Increase Efficiency

Desktop-based self-service data preparation eliminates the need for IT to manage endless data extraction and analysis requests from end users, which is often time consuming and labor intensive. Rather than going through the cycle of explanation, testing, and clarification with IT, domain experts can do it themselves with Monarch. Automated, repeatable processes with reusable models and workspaces allow users to spend their time analyzing data instead of preparing it for analytic needs.

Pre-Built Solutions

Monarch has an extensive library of pre-built and tested workspaces in Altair's Monarch App Library. Rather than spending hours preparing data for analysis, users can open Monarch, download the apps for the systems they need, load data, and immediately begin working. With Monarch Server, users can automate all their processes, either with advanced scheduling, file on-arrival, or via the API for more complex scenarios.

Challenges Monarch Helps Solve

Report Reconciliation: Reconciling data from multiple sources is necessary for nearly every department to get accurate answers to critical questions. Manually cleaning, joining, and transforming reports for reconciliation is repetitive, error-prone, and takes an enormous amount of time. Monarch and Monarch Server empower users to extract data from any source and then automate repeatable reconciliation workflows. Instill more trust in your output and focus more on analyzing your results.

Faster, More Accurate Audits: Audit data arrives in PDF and text-based reports from clients and third-party systems. It's important that these wildly disparate sources match up with the books. Reconciling these two pieces of the puzzle is usually hard work – and audits can be painstakingly slow. Altair automates the extraction of complex data and comparison of multiple sources. With Monarch, auditors spend less time preparing information, have more confidence in their evaluations, can instantly identify fraud, and recover more money for clients.

Fully Automate Migration of Legacy Data to a New System: Whether moving to the cloud or replacing a legacy system with a more modern software package that better meets your business's needs, enterprise system migrations are daunting because they are infamously slow and resource intensive. Altair turns this manual, monthslong process into an automated workflow that pores through years of data and completes the migration in a few days (or even hours).

Data Transformation for the Enterprise

For more than 30 years, Monarch has helped organizations around the world transform difficult-to-use data into clean datasets for:

• Reconciliation
• Automated regulatory reporting
• Data preparation for robotic process automation (RPA)
• Systems and data migration

Major financial, manufacturing, government, education, and retail organizations use Monarch to extract data locked in reports from critical line-of-business systems such as core banking, ERP, and HCM. These can be from mainframe, midrange, commodity on-prem, or even cloud-hosted systems.

• Enable no-code, pattern-driven data capture of reports and other transactional business documents stored in virtually any format including PDF, text, Microsoft® Excel®, as well as tabular sources, connect to business applications including Salesforce, Netsuite, Hubspot and ServiceNow, database and analytical sources including SQL Server, Oracle, Teradata, Redshift, BigQuery, Cassandra, MongoDB, and others.
• Save parsing and transformation rules, including filters, sorts, joins and exports into reusable automated workflows.
• Link disparate data sets quickly through a friendly, visual interface and eliminate the need to create code-intensive SQL joins.
• Handle any type of text encoding users have.
• Connect to local network and cloud data sources.
• Work with a wide variety of data sources in the same workspace to build robust workflows.
• Automate and streamline data processing workflows, improve data quality, and centralize storage, making data more readily available to end users and empowering their decision-making.
• Easily integrate with other business intelligence and analytical tools, enhancing organizations' overall data analytics ecosystem.

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